



# Air Force Research Laboratory|AFRL

*Science and Technology for Tomorrow's Air and Space Force*

## **Success Story**

### **SIX AFRL ENGINEERS NAMED AIAA ASSOCIATE FELLOWS**



Top Row (L to R):

Dr. Victor Burnley, Dr. Jose Camberos, Dr. David Doman

Bottom Row (L to R):

Dr. Raymond Kolonay, Dr. Reid Melville, Dr. James Miller

Six AFRL engineers earned the status of American Institute of Aeronautics and Astronautics (AIAA) Associate Fellows for their important contributions to the science and technology of aeronautics or astronautics. In recognition of their significant technical contributions to the field of aerospace engineering, the AIAA named Drs. Victor Burnley, Jose Camberos, David Doman, Raymond Kolonay, Reid Melville, and James Miller as Associate Fellows for 2005.



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### **Accomplishment**

Dr. Burnley, of AFRL's Computational Sciences Center of Excellence, is advancing the capabilities of air vehicles unstructured solver computational fluid dynamics code.

Dr. Camberos, also of the Computational Sciences Center of Excellence, is developing methods for computational fluid dynamics and electromagnetics. Dr. Doman is the technical area lead for the Space Access and Hypersonic Vehicle Guidance and Control Group in the Control Science Center of Excellence. He was corecipient of AFRL's 2004 General Benjamin D. Foulois Award for his research in the areas of adaptive guidance and control, online trajectory retargeting algorithms, and nonlinear control allocation.

Dr. Kolonay, a senior research aerospace engineer in AFRL's Multidisciplinary Center of Excellence, is an expert in structures, structural dynamics, linear/nonlinear aeroelasticity, engineering sensitivity analysis, optimization, and network computing. He is developing methods for the automated multidisciplinary analysis and optimization of flight vehicle structures. Dr. Melville, the technical advisor to AFRL's Computational Sciences Center of Excellence, is an expert in nonlinear fluid structure interactions, including the aeroelastic analysis of full aircraft configurations. He earned AFRL's 2002 General Benjamin D. Foulois Award for this research. Dr. Miller, a research aerospace engineer in the Computational Sciences Center of Excellence, is an expert in fluid dynamics, aerothermodynamics, chemical laser flows, unstructured flow solver methods, space-marching methods, and structured and unstructured grid generation.

### **Background**

The AIAA has been the premiere society for aerospace engineers and scientists for over 70 years. It is the world's largest professional society dedicated to engineering and science progress for aviation, space, and defense. Associate Fellows are peer-nominated and -elected. Individuals must have 12 years of professional experience to be considered for this honor.

### **Additional Information**

To receive more information about this or other activities in the Air Force Research Laboratory, contact TECH CONNECT, AFRL/XPTC, (800) 203-6451 and you will be directed to the appropriate laboratory expert. (05-VA-13)